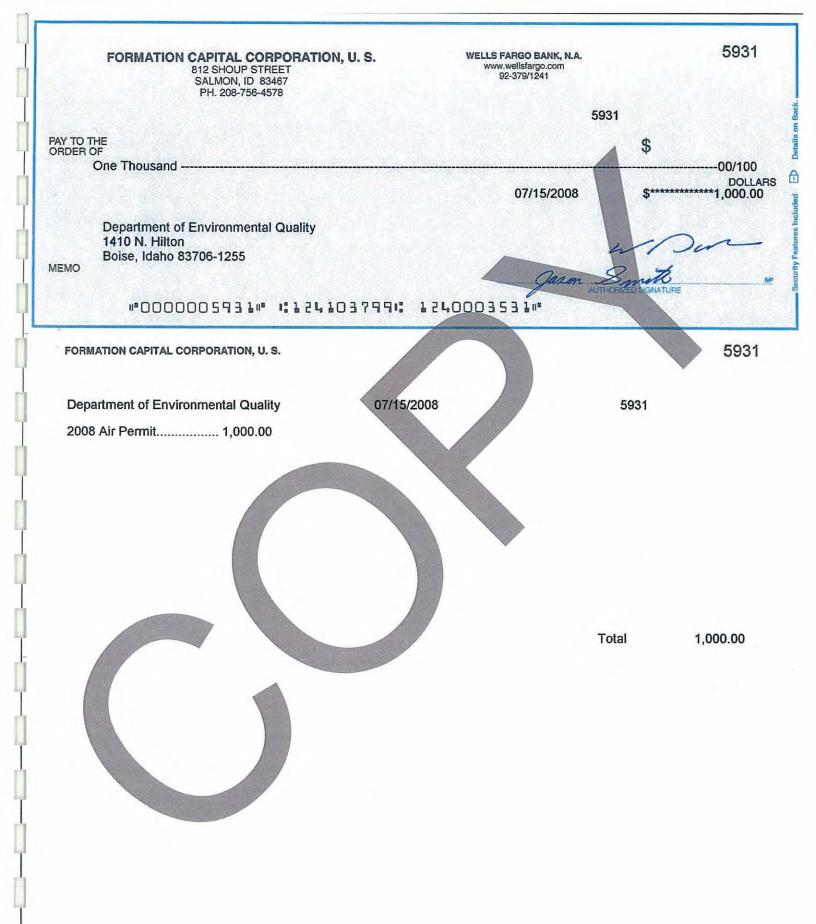
Appendix C

Application Fee, and Affidavit of Publication for Informational Meeting Announcement



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THE RECORDER HERALD CLASSIFIED ADVERTISING RATES

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Payment must accompany all orders unless the customer has established an advertising account with The Recorder Herald.

Classified Display — \$5.25 Col./Inch Card Of Thanks — \$4.90 and up Call (208) 756-2221

FOR SALE

2002 Chevy Silverado, 4wd pickup, 2500 HD, ext. Cab, one owner, 89,000 miles, \$11,000, call 756-4268. S-7-3-2tp

Three wheel Honda, Powder River horse rack for a pickup, swamp cooler, phone evenings (208) 894-2467. S-6-26-3tp For sale - four-year-old Molly mule, trained S-7-3-2tp to pack, 879-5559.

Haulmark enclosed cargo trailers, flat-bed, dump. ATV trailers. Drive a little save a lot. Northwest Trailer Sales, Hamilton, Montana, toll free 1-866-363-0464.

S-3-22-tfc

HORSE TRAILERS for sale, Karl Tyler Chevrolet, Missoula, Mt. 1-800-227-2438. S-11-06-tfc

FIRE STARTER OR PACKING - The Recorder Herald, 519 Van Dreff St. - Only 10¢ a pound. S-9-8-tfc

GARAGE SALE

Yard sale Saturday, July 12, 8 a.m. to 2 p.m., 609 Broadway Street. GS-7-10-1tp Two family garage sale, no junk! Baby items, electric stove, gas fireplace, exercise equipment, books, etc, 404 Copper Street, 8 a.m. to noon, no early birds.

Multifamily stuff reduction including fabric, July 12, 9 a.m. to noon, Highway 93 South, Apache Way, watch for signs.

GS-7-10-1tp Two family yard sale, Highway 93 South

near Shoup Bridge, July 11 and 12. GS-7-10-1tnc Fabric and notions only sale inside at 206

W. 3rd Ave. Saturday, July 12, 7 a.m. to 1 p.m. or by appointment, 240-8454. Hundreds of yards of assorted new fabric. 'GS-7-10-1tp Blue Office late

FOR RENT

Two bedroom, one bath house in town, garage, propane heat, electric stove, fridge, laundry hookups, \$480 plus deposit, 756-R-7-10-2tp

Retail space for rent or lease, 504 Main Street, approximately 2,300 square feet available now, call (208) 940-0394.

Three bedroom, two bath house ready by August 1, new roof, air condition, heat pump, new flooring, 209 Fairmont, need references, may be able to rent with option to buy, \$650, call Linda, 756-6635. R-7-10-1tp

\$400, 506 Main Street, one bedroom, one bath upstairs unit, like new inside, refrigerator, microwave, secured entry, blinds, water, trash sewer included, (208) 756-6911, (208) 940-0394. R-6-26-4tc Two bedroom, 11/2 bath apartment with R-7-10-tfc posit, call 993-0181. One bedroom apartment in duplex. Large

kitchen and living room, nice yard, available early July, references required, \$435 per month. (208) 756-4485. R-7-10-1tp Sungate Apartments - Beautiful 1, 2, and 3 bedroom units. Please call 756-4166 for

availability and price. Office located at 360 N. Margaret Street in Salmon, TDD 1-800-545-1833 ext. 298. Now accepting Section 8 Vouchers. Check out our website: www.sungateapartments.net.

Office Space - downtown location, easy parking, low rates starting at \$240 a month, including utilities. 756-4489 or R-8-16-tfc

Three bedroom, one bathroom, \$585 per month, call Paige Oeding Real Estate at R-6-26-tfc of charge.

600 square foot nice clean office located in W/D hookups, \$495 per month, \$500 de- the Professional Plaza 1301 S Main. Paved off street parking, office divided into two rooms plus full bathroom, \$450 per month, 865-2212.

> One bedroom apartment, \$340 plus deposit and electric, Shadow Ridge Apart-R-3-13-tfc ments 756-8223.

Rent Adjusted To Income - B&H Apartments is currently accepting applications for future openings in family and elderly apartments. Rent is based on income due to Section 8 Idaho Housing guidelines. Pick up an application at 701 Imperial Way Apartment 3C or call 756-4918. R-7-15-tfc R-7-15-tfc

LOST AND FOUND

IF YOU HAVE FOUND or lost an item, Independence Inc. is now taking applica-The Recorder Herald will advertise it in, tions for a licensed RN. Apply in person the classified section for one week FREE at 905 S Main St., Salmon, Idaho.

HELP WANTED

Salmon School District No. 291 is seeking qualified applicants for the following positions: high school head coach for boys basketball, girls basketball, cross-country coach; substitute teachers; governmenteconomics teacher: Title One paraprofessional; bus drivers. Please contact the Salmon School District at (208) 756-4271.

Be your own boss! Seeking experienced satellite installation subcontractors, \$70 1room install! Start immediately! Proof of Cert, and Ins. required. Contact Cliff at 866-457-0766. Email to: cliff@starwestsatellite.net, www.starwestsatellite-

Legal Notices

NOTICE TO CREDITORS CASE NO. CV 08-137

IN THE DISTRICT COURT OF THE SEVENTH JUDICIAL DIS-TRICT OF THE STATE OF IDAHO. IN AND FOR THE COUNTY OF LEMHI

IN THE MATTER OF THE ES-TATE OF: GARY R. HAMMOND, De-

NOTICE IS HEREBY GIVEN that JOE F. MCCRORY has been appointed personal representative to administer the estate of GARY R. HAMMOND, deceased. All creditors of this estate are required to present their claims within four (4) months after the date of the first publication of this notice or said claims will forever be barred. Claims against the estate must be presented to the personal representative at the address below indicated and filed with

DATED this 4th day of June,

PAUL B. WITHERS for JOE F McCRORY Personal Representative 1301 Main Street, Suite 6 Salmon, Idaho 83467 (208) 756-2009 6-26-3tc

ADVERTISEMENT FOR BIDS

Sealed proposals will be re-

McGraw-Hill, 4082 Chinden Blvd., Boise 83714 Idaho Plan Room c/o Blue Prints

Plus, 4082 Chinden Blvd., Boise 83714 Child Development Center, Deb

Cheney, 806 Poleline, Salmon 83467 (208-756-2016) Documents may be obtained for

bidding purposes from the following location: DHW Central Office, 450 W.

State Street, 9th Floor, PO Box 83720, Boise, ID 83720-0036, (208) 334-0665. For additional information or

questions, contact Tom Long, Department of Health and Welfare, PH: (208) 334-5563. Project can be reviewed at the Child Development Center, 806

Poleline, Salmon, Idaho. Coordinate site visit with on-site representative Deb Cheney at (208) 756-2016. A bid bond in the amount of 5%

of the total bid amount, including any add alternates; and a Public Works Contractors License for the State of Idaho is required to bid on this work.

Estimated Cost: \$52,000 - Allen J. Drennen, Chief, Bureau of Operational Services 7-10-2tc

> NOTICE TO CREDITORS CASE NO. CV 08-188 THE DISTRICT COUPT OF

the Clerk of the Court. DATED this 18th day of June

WILLIAM MARSHALL TATE Personal Representative

c/o Milton A. Slavin, Esq. Slavin Law Office, Chtd. 116 North Center Street Salmon, Idaho 83467

PUBLIC NOTICE

Formation Capital Corporation U.S. (Formation) will hold an informational meeting, in accordance with Idaho code 58.01.01.213.02(a), on Monday July 21st, at Formation's office at 812 Shoup Street in Salmon, Idaho from 7:00 p.m. to 9:00 p.m. The purpose of the meet-Ing will be to provide information on and discuss the company's air quality Permit To Construct application for the Idaho Cobalt Project. The project proposes to mine and concentrate cobalt ore in the near vicinity of the inactive Blackbird mine west of Salmon. The meeting is intended to focus only on air quality aspects of the proposed project. The proposed action would represent a minor source of air pollutants under IDEQ and EPA definitions. 7-10-2tc

IMPOUNDING OF PERSONAL

dozer located at the historic Casto townsite

4. After the impoundment, the owner may regain possession by contacting the Middle Fork District Ranger at HC 63 Box 1669, Challis. Idaho, 83226, providing title documentation or other proof of ownership, and paying the costs of advertising, removing, and storing the property. If the property is not redeemed prior to October 24, 2008, it may be disposed of as provided by Secretary of Agriculture Regulation 36 CFR 262.12.

Signed at Challis, Idaho this 3rd day of July, 2008

Isl Tom Gionet (for) CHRIS GROVE District Ranger Middle Fork Ranger District Salmon-Challis National Forest 7-10-1tc

NOTICE OF PROPOSED CHANGE OF WATER RIGHT TRANSFER NO. 74829

EVELYN R CARLSON and THO-MAS H CARLSON, PO BOX 206, LEADORE ID 83464, has filed Application No. 74829 for changes to the following water rights within LEMHI County: Right No. 75-14483 and Right No. 75-14485; to see a full description of these rights and the proposed transfer, please see

Haddock gets degree

Sarah E. Haddock, a 2002 graduate of Salmon High School and a 2006 graduate of the University of Idaho, received a degree in Medial Technology from Sacred Heart Medical Center in Spokane, Washington, June 26, 2008.

She has accepted a postition at Whitman Hospital & Medical Center in Colfax, Washington.

REAL ESTATE

Gorgeous home at the mouth of Tower Creek, Built in 2006 this home boasts 1,920 square feet of single level living. Three bedrooms, two baths, great room, custom kitchen, laundry room, 780 square foot oversized two-car garage, luxurious lawn, large redwood deck, post and rail fencing and automatic sprinkler system, 6.2 acres with Tower Creek frontage. Serene setting, lots of wildlife, one of a kind peaceful setting, Brokers welcome, 756-4867.

RE-7-10-4tp

the place of use to resolve BLM oblections and to reflect actual irrigating practices. The point of diversion remains the same in Lot 4 SWNE 24 Sec 24 T16N R20E for 2.90 cfs. The place of use is in Sec 24 T16N R20E for 122.5 acres and In Sec 19 T16N R21E for 34 acres for a total of 156.5 acres.

Protests may be submitted based on the criteria of Sec 42-222, Idaho Code.

Any protest against the proposed change must be filed with the Department of Water Resources, Eastern Region, 900 N Skyline Dr Ste A, Idaho Falls ID 83402 together with a protest fee of \$25.00 for each application on or before July 28, 2008. The protestant must also send a copy of the protest to the applicant.

David R. Tuthill, Jr., Director 7-10-2tc



Appendix D

Emission Inventory and Emission Source Supporting Documents

Attachment 1

Emission Inventory

		NOx	CO	PM10	SOx	TOC		NOx	CO	PM10	SOx	TOC	PM		Arsenic	Cobalt	Nickel		
ource ID	Source	tpy	tpy	tpy	tpy	tpy		lbs/hr	lbs/hr	lbs/hr	lbs/hr	lbs/hr	lbs/l	r tpy	ton/yr	lbs/hr	ton/yr	***************************************	-
101	1900-GE-901 - Generator	3,108	0,357	0,0705	1,132	0.018		12.434	1.429	0,2822	4,526	0.071			from PM t/yr		from PM t/yr	incorrect and the same	1
201	1200-DC-201 - Crushing Dust Collector			0.2100						0.1250			0.33	0.566	4.02E-03	4.75E-03	1.13E-05		-
301	Ore Stockpile			0.0004						0.0157			0.03	0.001	5.68E-06	4.44E-04	1.60E-08	0.00022359	8.3
302	1200-LD-201- Tram Bin to Coarse Ore Stockpile			0.0022						0.0013	-		0.00	0.002	1.59E-05	1.88E-05	4.48E-08		
303	Loader grab from Coarse Ore Stockpile			0.0022						0,0013			0.00	0.002	1.59E-05	1,88E-05	4.48E-08		
401	Waste Rock Stockpile			0.0002						0,0070			0.01	0.000	2.52E-07	1.97E-04	7,09E-09	9.91349E-05	2.3
402	1200-LD-201- Tram Bin to Waste Rock Stockpile			0.0010						0,0016			0.00	0.001	6.82E-07	2.26E-05	1,92E-08		T
2403	Loader grab from Waste Rock Stockpile			0.0289						0.0087			0.01	0.061	4.33E-05	2.58E-04	1.22E-06	1 10 - 10	T
2404	Loader dump Waste Rock Stockpile into Truck			0.0289						0.0087			0.01	0.061	4.33E-05	2.58E-04	1.22E-06		-
2501	Conc bldg tailings pile		-	0.0000				7		0.0002			0.00	0.000	5.45E-09	4.26E-06	1.54E-10	***************************************	
2502	Loader grab from Tailings Stockpile			0,0005					-	0.0001			0.00	0.001	7,26E-07	1,99E-06	2.04E-08		
2503	Loader dump Tailings to Truck			0.0005						0,0001			0.00	0.001	7,26E-07	1,99E-06	2.04E-08		1
601	TWSF Waste Rock truck dumping			0.0010						0.0016			0.00	0.001	6.82E-07	2,26E-05	1,92E-08		1
602	TWSF area management			0.2010						0.2792	100		0,372	0,268	1.90E-04	5.25E-03	5,36E-06	***************************************	-
603	TWSF wind eroision			0.0154						0.6044			1.209	0.031	2.18E-05	1.70E-02	6.14E-07	0,008583111	24
604	Truck Dumps Tailings TWSF			0.0007						0.0001			0.00	0.001	4.63E-07	1.27E-06	1.30E-08		
901	Roads (tram scenario)			1,5856						1.0474							1		1
1001	Loader Traffic			0.2497						0,1486									1
1101	1200-BN-201 - Mined Rock to Tram Bin		-	0.0032						0.0016			0.00	0.003	1,68E-05	2.26E-05	6,40E-08		1
1102	1200-FE-201 - Bin to Tram			0,0032						0,0016			0.00		1.68E-05	2,26E-05	6,40E-08	***************************************	-
1201	Loader drop to Primary Crusher feed bin			0.0673						0.0401			0.08		1.01E-03	1.19E-03	2.85E-06		4
1401	1200-BN-203 - Fine Ore Bin (in)			0.0049						0.0029			0.00		3.48E-05	4.11E-05	9.80E-08		1
1402	1200-BN-203 - Fine Ore Bin (out) fully enclosed			0,0000						0.0000			0.000		0.00E+00	0.00E+00	0.00E+00		-
1501	1400-SI-401 - Cement Silo (in)			0,0007						0,0068									
1502	1400-SI-401 - Cement Silo (out) fully enclosed			0.0001				-		0.0006			77			nom stronger			-1
1601	Underground emissions vented from mine mouth	4.688	18,476	1.6729	0.552			4.816	18.982	1,5575	0.567	-	0.02	0,103	5,43E-04	3,50E-04	2.07E-06		+
1701	Load /Unload at Topsoil stockpile			0.0001				112.12		0.0008				0,100		0,002-04	2,012-00	***************************************	-
1702	Topsoil Stockpile			0.0075						0.2940							h		7
	Total TRAM SCENARIO	7.8	18,8	4.1583	1.7	0.0		17.3	20.4	4,4388	5,1	0,1	2,12	1.253					
70411-005	NARIO These sources replace the yellow Tram Only sources. Truck dun		15 (7	terri i i i i										1					T
TRAM SCE	NARIO These sources replace the yearow fram Only sources. Truck duri	TIP VYASTE ROCK IS	Irom Mine to 1	rvar instead of	nom vvaste n	ock stockpile a	t the tram to TW	or .			-								
0901	Roads (no tram scenario)			5.7424		0	1 2 1 1 2	100		3.8186					***************************************				-
1301	Mined Rock truck dump	- III		0.0032				= = = =		0,0016			0.002	0.003	1.68E-05	2.26E-05	6.40E-08		-
1303	Loader grab from mined rock pile		1000	0.0032			1 11		10000	0.0016			0.002		1,68E-05	2.26E-05	6.40E-08	Samuel Valley and St.	1
1304	Loader drop to Truck		00000	0.0962		DEC.			100000	0.0481			0.102		1.07E-03	1.43E-03	4.07E-06		1
1302	Mined Rock stockpile			0.0002			L VI			0,0070			0.014		1.95E-06	2.06E-04	7.43E-09	0.000103856	2.9
2001	Truck Dump Crusher Ore Pile (no tram scenario)		2-11	0,0022	1					0,0013			0.00	0.002	1.59E-05	1.88E-05	4.48E-08		-
	Total NO TRAM SCENARIO	7.8	18.8	8,3551	1.7	0.0		17.3	20.4	7.2475	5.1	0.1	2.20	1.336	0.0070	0.0310	0.00003		-
ASHINE POR	RTAL SCENARIO This scenario matches the No Tram scenario except to	or a different mine	portal location,	shorter roads,	and no 1301-	1304 transfer to	o alrger trucks o	utside the m	ine						***************************************				
3001	For the Sunshine Portal scenario: EP 3001 replaces EP1601.	4,688	18,476	1,6729	0.552	0.000		4.816	18.982	1.5575	0.567	0.000	- Const	0.402	0.000540770	0.00070005	4 005 00	0.000540555	
0902	Roads (Sunshine Portal scenario)	4,008	10,470	3.7144	0.552	0,000		4,810	18,982	2.4569	0,567	0,000	50.0	0.103	0.000542776	0.000/0065	1.09E-08	0.000542776	1
0902				3,/144			1			2,4509					Samuel S		-		+
	Total SUNSHINE PORTAL SCENARIO	7,8	18,8	6,2220	1,7	0.0		17.3	20,4	5,8262	5.1	0.1	2,080	1.124					1
	universally represents fram scenario only emissions										-				dimini e				+
	universally represents fram scenario only emissions						200		-		NAME OF TAXABLE PARTY.								I
	All model sources named in blue highlights on each calcula	worksheat				1	-	-		processing emiss	ions			-1					1
	Model source parameter derivation documented in bue text on each wor. Green hourly emission rates are only for hours with wind sp					-	A	rsenic bea	nng PM			COURT OF THE PERSON NAMED IN							-
- 10	The state of the s								- 1		1								+
	Cobalt source emission n	rates conservati	vely assume	shourly emis	sion rate fo	r PM=2*PM	-10 hourly em	nission rat	e					1000				100 700	
	Arsenic source emission re																		-

3 Options for Stand-by Generator, all EPA Tier II Certified

Option 1

Caterpillar C27

Max hrs/day= Max hrs/yr= Max sulfur % in deisel

	800	KW		AP-42 (.00809)(S%)		
	NOx	со	PM	SOx (/hp, not /KW)	нс	Total Emissions
Manuf guar (g/KW-hr)	7.05	0.31	0.032		0.04	
Manuf (lbs/KW-hr)	0.0155	0.0007	0.0001	0.0040	0,0001	
lbs/hr	12.434	0.547	0.056	4.526	0.071	17.6
tpy	3.108	0.137	0.014	1.132	0.018	4.4

Stack exh temp (dergees F) Stack exh flow rate (acfm) Stack exit diameter (inches) 955 6049.5

*Assumes generator will be permitted as a stand-by unit not to exceed 500 hrs/yr operation.

Reference: AP-42 Section 3.4

Max HP, any model 1119

24 500 0.5 Table 3,4-1

Madel Source name

EP101
All model stack data from manufacturer's specifications
Green highlight shows most conservative parameters used

EPA

Option 2

Detroit Diesel MTU 750RXC6DT2

	750	KVV		(.00809)(S9	(a)	
	NOx	со	PM	SOx (/hp, not /KW)	нс	Total Emission s
Manuf guar (4.173	0.81	0.09		NA	
Manuf (lbs	0.0092	0.0018	0.0002	0.0040	NA	-
lbs/hr	7.360	1.429	0.159	4.526	NA	13.5
tpy	1.840	0.357	0.040	1.132	NA	3.4

Stack exh temp (dergees F) Stack exh flow rate (acfm) Stack exit diameter (inches) 1040 5297.0 8

Option 3

Cummins 750 DQFAA

		750	KW		AP-42 (.00809)(S	%)	
		NOx	со	РМ	SOx (/hp, not /KW)	нс	Total Emission s
	Manuf guar (5,33	0.62	0.16		0,12	
	Manuf (lbs	0.0118	0.0014	0.0004	0.0040	0,0003	
	lbs/hr	9,400	1.093	0.282	4.526	0.212	15.5
ī	tpy	2,350	0.273	0.071	1.132	0.053	3.9

Stack exh temp (dergees F) Stack exh flow rate (acfm) Stack exit diameter (inches)

6310.0 NA

Emission factors from AP-42 Section 3.4, Table 3.4-3 and 4

						regulated HAPs			
Pollutant	EF	Hrs/yr	Units	lb/yr	tons/yr	tons/yr	Max lb/hr	avg lb/hr	
Benzene	7.76E-04	500	lbs/hp-hr	434.17	0.2171	0.2171	0.8683	0.0496	
Toluene	2.81E-04	500	lbs/hp-hr	157.22	0.0786	0.0786	0.3144	0.0179	
Xylenes	1,93E-04	500	lbs/hp-hr	107.98	0.0540	0.0540	0.2160	0.0123	
Propylene	2.79E-03	500	lbs/hp-hr	1561,01	0.7805		3.1220	0.1782	
Formaldehyde	7.89E-05	500	lbs/hp-hr	44.14	0.0221	0.0221	0.0883	0.0050	
Acetaldehyde	2.52E-05	500	lbs/hp-hr	14.10	0.0070	0.0070	0.0282	0.0016	
Acrolein	7.88E-06	500	lbs/hp-hr	4.41	0.0022	0.0022	0.0088	0.0005	
Napthalene	1.30E-04	500	lbs/hp-hr	72.74	0.0364	0.0364	0.1455	0.0083	
Acenaphthylene	9,23E-06	500	lbs/hp-hr	5.16	0.0026		0,0103	0.0006	
Acenaphthene	4,68E-06	500	lbs/hp-hr	2.62	0,0013		0,0052	0,0003	
Fluorene	1,28E-05	500	lbs/hp-hr	7.16	0.0036		0.0143	0,0008	
Phenanthrene	4.08E-05	500	lbs/hp-hr	22.83	0.0114		0.0457	0.0026	
Anthracene	1.23E-06	500	lbs/hp-hr	0.69	0.0003		0.0014	0.0001	
Fluoranthene	4.03E-06	500	lbs/hp-hr	2.25	0.0011		0.0045	0.0003	
Pyrene	3.71E-06	500	lbs/hp-hr	2.08	0.0010		0.0042	0.0002	
Benz(a)anthracene	6,22E-07	500	lbs/hp-hr	0.35	0,0002		0.0007	0.0000	
Chrysene	1,53E-06	500	lbs/hp-hr	0.86	0.0004		0.0017	0,0001	
Benzo(b)fluoranthene	1.11E-06	500	lbs/hp-hr	0.62	0.0003		0.0012	0.0001	
Benzo(k)fluoranthene	2.18E-07	500	lbs/hp-hr	0.12	0.0001		0.0002	0.0000	
Benzo(a)pyrene	2.57E-07	500	lbs/hp-hr	0.14	0.0001		0.0003	0.0000	
ndeno(1,2,3-cd)pyren	4.14E-07	500	lbs/hp-hr	0.23	0.0001		0.0005	0.0000	
Dibenz(a,h)anthracen	3.46E-07	500	lbs/hp-hr	0.19	0,0001		0.0004	0.0000	
Benzo(g,h,l)perylene	5.56E-07	500	lbs/hp-hr	0.31	0.0002		0.0006	0.0000	
Total PAH	2.12E-04	500	lbs/hp-hr	118.61	0.0593		0.2372	0.0135	

Emissions in AP-42 are < values listed

1.280 0.417

Emissions in AP-42 are < values listed

2.264 0.539

PM10 Calculations for ICP Stock Piles

Max daily volume - ore 1067 tons Max daily volume - waste 444 tons

Density of the the pises is 15.1 th*fron.

Transected shaped:

Total height of the stock pile is 6°.

Top width of the stock pile is 10°.

Top width of the stock pile is 10°.

Top width of the stock pile is 12°.

Bottom width of the stock pile is 24°.

Base to height ratio of 1 to 2°.

*I Primary factors influencing duct emissions from stock piles are the wind velocity, surface area, and sit content (weight %) of the material.

133 lbs/ft3

Volume = 16111.7 cubic feet

Area of the trapezoid = 1/4 x height x [top width (a) + bottom width (b)] Area = 106 square feet

Length = volume / area = 149.2 feet

Surface area of trapezoid affected by wind = area of top + area of both ends + area of both sides

Top area = (12')(149 2) = 1790.4 ft² End area = (2)(108') = 216 ft² Side area = (2)(8.5)(149.2') = 2536.4 ft² Total area = 4542.8 ft²

Waste Stockpile 444 Ions x 15.1 ft³/Ion = 6704.4 ft³

Area of the trapezoid = $\frac{1}{2}$ x height x [top width (a) + bottom width (b)]

= 1/4 x 6" x (12" + 24") = 108 ff

Length = volume / area = 6704.4 ft²/ 108 ft² = 62.08 ft

Surface area of trapezoid affected by wind = area of top + area of both ends + area of both sides

Top area = (12)(62.08) = 744.93 ft² End area = (2)(108) = 216 ft² Side area = (2)(8.5)(62.08) = 1055.36 ft² Total area = 2016.29 ft²

Portal Mined Rock Stockpile 500 tons (max) x 15.1 ft²/ton = 7550 ft³

Area of the trapezoid = $\frac{1}{2}$ x height x (top width (a) + bottom width (b))

Area = % x 6' x (14' + 28') = 126 ff

Length = volume / area = 7550 ft²/ 126 ft² = 59 92 ft

Surface area of trapezoid affected by wind = area of top + area of both ends + area of both sides

Top area = (14)(59.52) = 838.83 n² End area = (2)(126) = 252 n² Side area = (2)(8.5)(59.52) = 1018.64 n² Total area = 2109.52 n² = 0.0484 acres

Top Soil Stockpile 600 foot diameter

A=pi* r² A=3 1415926535*(300*)(300*) A= 282743.3 ft²

Dust emissions from the ore and waste piles were estimated using the methodology presented in *Emission Estimation: Alternative Methodology (WRAP Fugitive Dust Handbook)* Chapter 9.3 on Storage Pile Wind

Annual TSP emissions factor equation for wind blown dust from active storage piles.

TSP (lb/day/scre of surface) = 1.7 (s/1.5)(f/15) TSP (lb/year/scre of surface) = 1.7 (s/1.5)(365 [365-p)(235)(f/15)

Where, a = bit content of malerial (weight %) = 6.4 consultative mean for great reads, Myb because most materials will be course per number of days per year with at least 0.01 inches of precipitation = 0.00 concentration of Resoluciations were subsective, no crede to for fracern winter because piles could be worked then fire percentage of time the unobstructed wind speed as greater than 12 mph at the mean pile height; = 5.5%

% calculated from 2004 onsite met data used for modeling analysis

From WRAP Fugitive Dust handbook Section 9.3, Based on the PM10/TSP ration of 0.5 for wind blown dust from schw storage pies published in Section 13.2 5 of AP-42 and a PM2.5FM10 ratio of 0.15 for wind blown dust, the PM10 and PM2.5 emission factor equations (in united follots/piezo) would be:

PM10 (blysarfacre) = 0.5 times TSP (blacrolyear)

Calculations;

Ore and waste piles are dumped by the haul trucks in a straight line (trapezoidal-thaped pile), giving a total wind exposed area of 4543 Ω^2 for a 1067 ton pile and 2106 Ω^2 for a 444 ton pile.

(bullytacre | Bullytacre of surface of surfa

E_{TSP} = 15,3516 0.3022 E_{PSH10} = 7,6758 0.1511

Ore stockpile: 4543 ft² / 43,600 ft²/acre = 0.0794 acre 0.1042 acres 0.0462 acres 0.0484 acres 0.01 acres 6.4849 acres Waste rock stockpile: Portal Mined Rock Stockpile Cone building tailings stockpile Topsoil stockpile

Control efficiency Tailings stockpile Topsoil stockpile

90% from 18-20% mosthers content, r 70% From soil moisture initially and finally

| No.

PM10 Calculations for TWSF

Pile surface management

D4 dozer seasonally managing tailings, meeting land use req for compaction that will limit future wind erosion high moisture content limits emissions

4 max hrs/day 1440 max hrs/year 14.8 % Moisture content = M TWSF daily max feed

1037 tons per day from concentrator

19% moisture content 5% moisture content

444 tons per day waste rock @ 1481 tons total per day @

5% moisture content
14.8% average moisture content

AP-42 Table 11.9-1 Emission factors for Uncontrolled Dust Sources (at western coal mines)

use Efs for overburden

PM10 EF (lbs/hr) = .75 (1.0)*(S^1.5)/(M^1.4) PM EF (lbs/hr) = (1.0)*(S^1.5)/(M^1.4)

1037 tons feed from concentrator based upon 1067 tons mined - 30 tons concentrate derived

where M is moisture content (%) S is silt content (%)

- The mean silt content is 6.4% (Table 6-2, WRAP Fugitive Dust Handbook, 2006, conservative mean for gravel roads, because most material will be coarse rock).

S= 6.4 9

model source parameters based upon shape of bulldozer operating in activity area

Controlled PM emissions

tons/yr

0.3722 0.2680

Wind Frosion

Dumping into TWSF covered in Material Transfers

20 acres Max area where soil is not revegetated, covered with moist overlay, or compressed sufficiently to avoid wind erosion at any time

Assumes:

TWSF

Emissions from dumping have already been accounted for in the Material Transfer calculations (Truck Dumps Tailings). 50% of the tailings will go back into the mine and approximately 500 ton/day could go to the the TWSF. Therefore, using a conservative estimate by duplicating the 400 ton waste rock stock pile emissions (see calculations in the stockpile spreadsheet), and taking an 80% efficiency because the material will be dumped, leveled, compacted, and undisturbed until reclamation, wind erosions will not be a factor after a brief period of time, even without accounting for most of the year being frozen or wet.

Emission factor from Stockpiles worksheet

PM

model source parameters derived as described under stockpile worksheet

Uncontrolled PM-10 emissions Controlled PM-10 emissions lbs/hr/acre of sfc for hrs wind over 12 PM-10 EF Control eff mean size (acres) (lb/yr/acre) mph lb/yr max lb/hr tons/yr lb/day max lb/hr tons/yr 0.6044 0.0154 20 7.6758 0.1511 80% 153.5155 3.0222 0.076758 30.7031 15.3516 1.208889 0.030703

max lbs/hr assumes 2 times the average daily emission rate

Model Source Name EP603

	1 my distances	D	AILY TRAFF	C Trips per day (2		Uncontrolled PM-10 xxt)	_		Controlled	PM-10	10	TERMITTEN	TRAFFIC	Trips per ye	ar (2 per R	T, one in, o	ne out)				Misc	
	Surface whiches		nder	Van	Police	Heal Think (see)	Head Trook (words)	Had Truck (tale)	Cons titu Tk	TOTAL trips with tram	% of daily VMT (with trans)	TOTAL urips no	% of daily VMT (with tran)	Comment Tix	Shakarata	Ammorkan Nilvate	Diesel Fuel Tk	Ges Fuel	Propane track	10 Wheel Supply Tk	vendors and visitors	TOTAL
68-73	clain ine to intersection	1229	E 73778515	20	16	51		-	4	40	0.120202	91	0.096972	400		80	300	2	2	46	40	
79-82	Intersection to subvervious entraine	460	0.00712121	20	16			25	4	65	0.073109	65	0.025925	400	268					46	40	
79-82	interrection to studier	1717	g.3348580s		a	51	20			28	0.120074	59	0.090394									
79-82 118-146,	intersection to littles shopfood star	1730	8.73465.000		6		20	25		51	0.154504	51	0.054789				300	2	2			
292-295	to Rom partal action claim body	1383	1,58658333	8		51	20				0.164175	79	0.574906		268							
84-91	to bottom of TWSF from future who	3815	8.72253788		2		20	25		47	0.438421	47	0.15547		555							
292-295	Endowes	100	B 16850001		2					2	0.004352		0.001543			100						
P0021-				Contract Contract					_	_	0.004002							_				
EP90211	to Summitte portal milities claim less	445	LOSSOCIE			102	40					150	0.000478									
	Total VMT per vehi	cie (tra	n)	19.1	11.0	0.0	25.8	20.2	1.3	77.5	dally	218.43	dally	128.0	449.4	32.1	140.2	0.9	0.9	14.7	12.0	annually
	Total VMT per vehicle	(no tra	m)	19.1	11.0	110.0	50.9	26.1	1.3	Total VMT	1.00	Total VMT	1.000				140.4		4.4		***	
	Increase without tram			0.0	0.0	1100	25.1	5.2	0.0	1000		roun van.	1.000									
To	tal VMT per vehicle (Sunshi	ne port	M)	19.1	11.0	37.9	22.7	26.1	1.3													
	For daily traffic, assume ann	sal max	is 250 days o	t the daily may					Market and	vine ohers												
	For annual traffic, assume di								Tram scen				0.348588									
	Lbs/hr assume all daily traffic				ote mass than 8 has	to and to do to seem				portal scenar	25000000		0.340300									

Vehicle and		1						Uncontrolled			Controlled	
Weight	Miles Driven/Day	Miles DrivenYear	Words, empty	Weight, smpty (lune)	Weight flore	E (Ibs/VMT)	thehr	Ibsiday	tons/yr	max lbs/hr	Ibs/day	tonstyr
Van	19.1	4778.6	0.75	1	0.875	0.121993784	0.44	2.3	0.3	0.09	0.47	0.06
Pickup	11,0	2746.4	0.5	0.75	0.625	0.104852813	0.22	1.2	0.1	0.04	0.23	0.03
Hauf truck tram	46.1	11519.6	35	75	56	0.786316317	6.79	36.2	4.5	1.36	7.25	0.91
Haul truck (no tram	187,1	46762.7	35	75	55	0.786316317	27.58	147.1	18.4	5.52	29,42	3.68
Smaller Haul Tk	76.7	21674 1	21	42	31.5	0.611890664	9.95	53.0	6.6	1.99	10.61	1.33
Concentrate 10 wheel	1.3	319.9	11	26	19.5	0.493116634	0.12	0.6	0.1	0.02	0.13	0.02
Cement	0.6	128.0	40	08	60	0.817715331	0.10	0.5	0.1	0.02	0.10	0.01
Shotcrete	2.2	449.4	10	20	15	0.438202796	0.15	1.0	0.1	0.04	0.20	0.02
Ammonium Nitrate	0.2	32.1	10	20	15	0.438202796	0.01	0.1	0.0	0.00	0.01	0.00
Diesel Fuel	0.7	140.2	10	20	15	0.438202796	0.06	0.3	0.0	0.01	0.06	0.01
Gas Fuel Tk	0.0	0.9	10	20	15	0.438202796	0.00	0.0	0.0	0.00	0.00	0.00
Proparie Tk	0.0	0.9	10	20	15	0.438202796	0.00	0.0	0.0	0.00	0.00	0.00
10 wheel supply tk	0.1	14.7	11	26	19,5	0.493116634	0.01	0.0	0.0	0.00	0.01	0.00
Misc Vendors and visitions	0.1	12.8	1	2	1,5	0.155480219	0.00	0.0	0.0	0.00	0.00	0.00
Totals (with	163.0						7.9	42.3	5.2	1.6	8.5	1.0
Totals (with no tram)	309,0						28.7	153.1	19.1	5.7	30.6	3.8
Totals (Sumshine)	317.0						18.6	89.0	123	3.7	18.8	2.5

The facility



	Claim the to Prescedur	10	EPSUIA	0.506600	0.370234303	omem)	0.05314
	Intersection to creative Fourt Milg Fatig	10	EP9018	0.98258	0.653397644	0.098258	0.06533
	to / from Ram portal	90	EP901C	3.30136	2.196342845	0.036882	0.0241
Koad emissions	Internediente TWSF	25	EP9010	0.901536	0.599570859	0.036065	0.02306
were							
calculated							
by							
es suming:		clouded stan.	Coul er envisions	5.74	3.82	5.74	3.82
Roads are covered with grave/crush limestone	to / from Sunshine portal	11	EP902	1.19072	0.791806576	0.108247	0.07190

•TTT the me	an sat content is 6.	4% (1308 6-2)	WHOAP Fugitive Liust Handbook, 2006).			SAMOUT NO.	Cum PM10		Ind PMID	
						pama	blv	DamPMID tonlys	Mr	Ind PM10 Ible
Constants	PM ₁₄	PM _{s0}	PM	Claim line to intersection	16	EP901A	0.190502	0.125897875	0.011912	0.00786862
	0.15	1.5	4.9	Intercedience truster fours Mile Folio	10	EP901B	0.55272	0.365106399	0.055272	0.03651064
	0.9	0.9	0.7	to / from portal	90	EP901C	0.260315	0.171954576	0.002892	0.00191061
b	0.45	0.45	0.45	Intersection to TWSF	25	EP9010	0.702061	0.463755426	0.028082	0.01855022
5"	6.4				sheek min.	Boad tre emissions	1.71	1.13	171	1.12

PM10 Calculations for ICP Loaders

Loader emissions were calculated by assuming:

6.4% silt (Table 6-2, WRAP Fugitive Dust Handbook, 2006).

83.3 max tons/hr through crusher bldg
1067 max tons per day through crusher building
280000 max tons per year through the crusher building
4 tons per loader load
266.75 loader trips/day =max crusher feed/tons per loader load)
250 feet per loader RT

50 W = tons each loader (100000 lbs each)

Uncontrolled PM-10 Controlled PM-10

E (lbs/VMT)	max lbs/hr	lbs/day	tons/yr	max lbs/hr	lbs/day	tons/yr
0.75	0.74	9,51	1,25	0,149	1,903	0.250

EP1001

80% control

for gravel surface with watering and chemical dust suppression

year 70000.0 3314.4 Modeled as an area source covering the short route between piles and the crusher feed bin, vert dims based upon loader width and vert extent, and drop hi

Used measured 72' length, 10' width, rel ht 4' (est mid equipment), vert dim 8' (est equip ht)

AP-42 13.2.2 equation (1a), updated 12/03, for unpaved road traffic on an industrial site with precip reduction from AP-42 13.2.2.2 equ 2

 $E = k \left(\frac{s}{12}\right)^a \left(\frac{W}{3}\right)^b \left(\frac{365 - P}{365}\right)$

 $E = Emission Factor (lb/VMT)^{1}$

s = surface material silt content (%)

W = mean vehicle weight (tons)

a, b, k = emipirical constants

P = number of days in a year with at least 0.01 inches of precipitation

Road emissions were

- Roads are covered with gravel/crush limestone
 - III The mean silt content is 6.4% (Table 6-2, WRAP Fugitive Dust Handbook, 2006).

Constants	PM _{2.5}	PM ₁₀	PM
k	0.15	1.5	4.9
a	0.9	0.9	0.7
b	0.45	0.45	0.45

s= 6.4

W= 52 tons, half full, half empty

P= 176 01='07 on-site met data, days w/measured precip

274 01='07 on-site met data, days w/measured precip 6 non frozen months, every day in 6 frozen months (Nov-Apr)

Crusher Circuit

All Operations inside a building

AP-42 lb/ton EFs used, referenced for each EF

The building is closed. A ventilation system runs all air release through a baghouse with manufacturer's guarantee of 99.95% control efficiency 95.00% Control efficiency is applied to calculated summed emission rates of the equipment

Screening calculations are worst case, assuming everything on the screens is fine

Conveyor emission calculations are worst case because they assume all transfers are uncontrolled, which is generally not the case

Crushing Plant Process - Controlled	Throu	ighput	PM Emission Factor	PM10 Emission Factor	PM Em	issions	PM10 Ei	nissions	E-Factor Reference
	tph	tpy			lb/hr	tpy	lb/hr	tpy	
Primary Crushing - Jaw Crusher 1	83.3	280,000	0.0054 lb/ton	0.0024 lb/ton	0.45	0.76	0.20	0.34	AP-42, 5th Edition, Table 11.19.2-2 Tertiary crushing (uncontrolled) ³
Secondary Crushing - Cone Crusher ¹	83.3	280,000	0.0054 lb/ton	0.0024 lb/ton	0.45	0.76	0.20	0.34	AP-42, 5th Edition, Table 11.19.2-2 Tertiary crushing (uncontrolled) ³
Screening - 1-Triple Deck1	83,3	280,000	0.025 lb/ton	0.0087 lb/ton	2.08	3,50	0.72	1,22	AP-42, 5th Edition, Table 11.19.2-2 Screening (uncontrolled)
Conveyor Transfers ^{1,2}	83.3	280,000	0.003 lb/ton/point	0.0011 lb/ton/point	3.75	6.30	1.37	2.31	AP-42, 5th Edition, Table 11.19.2-2 conveyor transfer (uncontrolled)

Uncontrolled building emissions	6.73	11.31	2.50	4.20
Controlled building emissions	0.3365	0.5656	0.1250	0.2100

¹ Moisture content assumed to be 4%; above the moisture content for controlled crushing in the Emission Factor Reference provided,

Model Source name

EP201

Modeled with manufacturer's specs for baghouse release point

² Process Flow verifies up to a total of 15 drop points are in use at the plant. Not all transfers handle all material, though they're conservatively assumed to here

³ AP-42 footnotes indicate no data available for primary/secondary crushing, but emission factors for PMo for tertiary crushers can be used as an upper limit for primary/secondary crushing,

	Fugitive Source	Moisture content	AP-42 Table 11.19- 2 PM10 EF	PM-10 EF (lbs/ton)	Max thruput tons/hr	Max thruput tons/day	Max thruput tons/yr	Max PM10 emiss Ibs/hr	Dincontr PM10 Max emiss Ibs/day	Max PM10 emiss tons/yr	Control Efficiency	Contr Max PM10 emiss Ibs/hr	Max PM10 emiss lbs/day	Contr Max PM10 emiss tons/yr	AP-42 Table 11.19-2 PM EF	Contr Max PM emiss lbs/hr	Contr Max PM emiss tons/yr
	1200-BN-201 - Mined rock (Ore and waste) to				200	200	400000	0.0040	0.0040	0.0000							10-20-00
EP1101	Tram Bin	5%	A	1.60E-05	100	1511	400000	0.0016	0.0242	0.0032		0.0016	0.024176	0.0032	1.60E-05	1.60E-03	
EP1102	1200-FE-201 - Tram Bin to Tram	5%	A	1.60E-05	100	1511	400000	0.0016	0.0242	0.0032	N	0.0016	0.024176	0.0032	1.60E-05	1.60E-03	3.20E-03
	1200-LD-201- Tram drop to Coarse Ore			20000000	400.00	(minute)	Team of the last of	1	- wassy	2 3440			12.30-40	E Comment			1000
EP302	Stockpile	5%	A	1,60E-05	83.3	1067	280000	0.0013	0.0171	0.0022		0.001333	0.017072	0.00224	1,60E-05	1.33E-03	2.24E-03
	1200-LD-201- Tram drop to Waste Rock	70							-		-						
EP402	Stockpile	5%	A	1,60E-05	100	444	120000	0.0016	0.0071	0.0010		0.0016	0.007104	0.00096	1.60E-05	1.60E-03	9.60E-04
EP403	Loader grab from Waste Rock Stockpile	5%	E	0.00048	18	444	120000	0.0087	0.2135	0.0289		0.008656	0.213526	0.028855	0.00102	1.83E-02	6.10E-02
	Loader dump Waste Rock Stockpile into																
EP404	Truck	5%	E	0.00048	18	444	120000	0.0087	0.2135	0.0289		0.008656	0.213526	0.028855	0.00102	1 83F-D2	6.10E-02
EP303	Loader grab from Coarse Ore Stockpile	5%	A	1.60E-05	83.3	1067	280000	0.0013	0.0171	0.0022		0.001333			1,60E-05		2.24E-03
EP1201	Loader drop to Primary Crusher feed bin	5%	Ë	0.00048	83,3	1067	280000	0.0401	0,5131	0,0673		0.04006	0.513136		0,00102		1.42E-01
EP502	Loader grab from Tailings Stockpile	19%	Ē	0,00007	9	495	130350	0.0007	0.0367	0.0048	90%	6.68E-05			0.00016		1.02E-03
EP503	Loader dump Tailings to Truck	19%	E	0.00007	9	495	130350	0.0007	0.0367	0.0048	90%	6.68E-05	0.003673	0.000484	0.00016	1.41E-04	1.02E-03
EDOO!	Truck Dumps Tailings (18 - 20% moisture	400/	С	0.0001	9	405	120250	0.0009	0.0495	0.0065	90%	0.00000	0.00405	0.000050	0.0004	0.005.05	C 505 04
EP604	content)	19%	G	0,0001	9	495	130350	0.0009	0.0495	0.0065	90%	0.00009	0.00495	0,000652	0.0001	9.00E-05	6.52E-04
DAMAGE.	Truck Dump Crusher Ore Pile (no tram	200	100	0.000000000	22/2	W2222	and the same of	I because	20222	20020000				202222		0.000	121212
EP2001	scenario)	5%	A	1,60E-05	83.3	1067	280000	0.0013	0.0171	0.0022		0.001333	0.017072	0.00224	1.60E-05	1.33E-03	
EP1301	Mined Rock truck dump	5%	A	1.60E-05	100	1511	400000	0,0016	0.0242	0.0032		0.0016	0.024176	0.0032	1,60E-05	1.60E-03	
EP1303	Loader grab from mined rock pile	5%	A	1.60E-05	100	1511	400000	0.0016	0.0242	0.0032		0.0016	0.024176	0.0032	1.60E-05		
EP1304	Loader drop to Truck	5%	E	0.00048	100	1511	400000	0.0481	0.7267	0.0962		0.048092	0.726663	0.096183	0.00102	1.02E-01	2.03E-01
EP1701	Load / unload at topsoil storage pile	20%	A	1.60E-05	100	444	30000	0.0016	0.0071	0.0002	50%	0.0008	0.003552	0.00012	1.60E-05	8.00E-04	1.20E-04
EP601	Truck Dump Waste Rock To TWSF	5%	A	1,60E-05	100	444	120000	0.0016	0.0071	0.0010		0.0016	0.007104	0.00096	1.60E-05		9.60E-04
EP1401	1200-BN-203 - Fine Ore Bin (in)	NA	D	0.00014	83.3	1067	280000	0.0117	0,1494	0,0196	75%	0.002916	0.037345	0.0049	1.40E-04		4,90E-03
EP1402	1200-BN-203 - Fine Ore Bin (out) fully enclosed	NA	D	0.00014	83.3	1067	280000	0.0117	0,1494	0,0196	100%	0	0	0	1.40E-04		0.00E+00
EP1501	1400-SI-401 - Cement Silo (in)	NA	F	0.00034	20	40	4000	0.0068	0.0136	0.0007	10070	0.0068	0,0136	0,00068	0.00099		1,98E-03
	1400-SI-401 - Cement Silo (out) fully enclosed	NA NA	D	0.00014	20	40	4000	0.0028	0.0056	0.0003	80%	0.00056	0.00112	0.000056	1.40E-04		5.60E-05
EP1502	TOTAL	INA	U	0.00014	20	40	4000	0.0020	0.0036	0.0003	8078	0.00036	0.00112	0.000036	1.400-04	3.00E-04	3.00E-03
	IOTAL				_												
							A			mented ston	e						
	Emission factors referenced are all from AP-42						В		ransfer poir								
		except as no	ted to the right				С		ading, crust								
				Tram scenario	oonly		D	conveyor to	ransfer poir	t (controlled	1)						
	Control Efficienices			No tram scen	ario only		E	AP-42 13.2	2.4 for aggre	egate handli	ng. See be	low					
					1		F	AP42 Table 11	.12-2 for contro	olled cement uni	loading to eleva	ted storage silc	(pneumatic)				
	Fine Ore Bin outflow	100% physical	v enclosed from b	in into concentra	for building wh	nere material in	nmediately en	lers a wet prod	200				1				
	Cement Silo outflow		almost entirely phy							a wet process							
	Truck Dump, tailings		ed by 18 - 20%							a not process,							
	Toppsoil load / unload		over dry mater			le added de	Ining conce	Tittation proc	1	-							
			atively estimat				d alla la alu	- > 00 00/ a	antenia in A	0.40			_		-	-	-
	Fine Ore Bin filtered sock vent	very consev	auvely estimat	ed since same	miler system	n on cemer	ii silo is give	20,976	Difficia III A	P-42	_		_				
												- A - 1					
	All sources modeled based upon mean horiz dimensions												L				
	Fine Ore Bin and Cement Silo inflow hor dimensions	based upon size	of sock filter ven	t, vert dims base	d upon silo hei	ght/shape. Ou	itflows from th	ose sources at	e fugitives fro	m possible sm	all openings it	enclosure sy	stem				
									H								
	FRONT END LOADING/STOCKPILE	DISTURBA	NCE EMISS	SIONS													
	PM=(k)*(0.0032)*((U/5)^1.3)/((M/2)^1.4)			UE .		AP-42	13.2.4-3 E	quation (1)									
	PM ₁₀ =(k')*(0.0032)*((U/5)^1.3)/((M/2)^1.4)					AP-42	13 2 4-3 F	quation (1)									
	(N) (O.OOOL) ((O/O) T.O/((MI/L) 1.4)		-		-	711.772		7.4.1.41									
	100									-			_	-		-	
	Where									-						2	
	k=	Particle size	multiplier for F	M			0.74			Page 13.2.							
	k'=	Particle size	multiplier for F	M ₁₀			0.35			Page 13.2.	4-4						
	U=	Mean wind s	need				7			Conservati	ve estimate	from 2004	measured				
			terial moisture	content			5	%	100	from colum							
	M=			Comon				%									
	M=				_		10	70							-		
	M=	For wetter m	aterial					1									
	M=	For wetter m		For 10% MC	torial												
		For wetter m	iterial	For 19% MC ma	terial												
	Uncontrolled PM =	For wetter m For 5% MC ma 0,00102	terial bs/ton	0.00016	terial												
		For wetter m	iterial		terial												
	Uncontrolled PM =	For wetter m For 5% MC ma 0,00102	terial bs/ton	0.00016	terial												
	Uncontrolled PM = Uncontrolled PM ₁₈ =	For wetter m For 5% MC ma 0,00102	terial bs/ton	0.00016	terial												
	Uncontrolled PM = Uncontrolled PM to =	For wetter m For 5% MC ma 0,00102	terial bs/ton	0.00016	iterial												
	Uncontrolled PM = Uncontrolled PM ₁₀ = AP-42 Fifth Edition Jan 95 Section 13 Miscellaneous Sources	For wetter m For 5% MC ma 0,00102	terial bs/ton	0.00016	iterial												
	Uncontrolled PM = Uncontrolled PM to =	For wetter m For 5% MC ma 0,00102	terial bs/ton	0.00016	iterial												

Blasting (combustion)

AP-42 Section 13.3 utilized to calculate emissions from blasting material.

1511

tons rock blasted/day lbs ANFO used / ton of rock

1.511 tons ANFO/day = (tons rock blasted) / 2000 lbs/ton) * (lbs ANFO / ton rock)

max lbs/hr conservatively assumes 1.5 times average hourly emissions for 8 hr/day

	EF		Uncontrolled		Controlled				
	lbs/ton ANFO	Max lbs/day	Max lbs/hr	Max tons/yr	Max lbs/day	Max lbs/hr	Max tons/yr		
NO2	17	25.7	4.8	4.7	25.7	4.8	4.7		
SO2	2	3.0	0.6	0.6	3.0	0.6	0.6		
CO	67	101.2	19.0	18.5	101.2	19.0	18.5		
PM-10	N/A	N/A	N/A	N/A					

Blasting Dust

No particulate emission factor for blasting. Moisture and retention time should minimize any blasting particulate emissions

lbs/charge charges/day charges/yr

Unc	ontrolled P	M-10	Co	ntrolled PM	-10	
lbs/hr	lbs/day	tons/yr	lbs/hr	lbs/day	tons/yr	
		7				

Drilling Dust

Drilling is a wet process, which results in complete particulate emissions control

Material Transfers

80 % relative himidity

20 minutes mean mine retention time before vented high % resulting mine particulate emission control

One pick up and one drop per load of ore

number of transfers

The 20 minute retention time is based upon the mine ventilation system, which is desgined to turn over the air in the mine once per hour.

The 20 minutes is consevative since the ventilation system will eb temporarily shut down or lowered when blasting, which typically occurs in teh further distances from the ventilation system vent, the portal at the mouth of the mine

Fugitive Source	Moisture content	AP-42 Table 11.19-2 PM EF (lbs/ton)	AP-42 Table 11.19-2 PM10 EF (lbs/ton)	Max thruput tons/hr	Max thruput tons/day	Max thruput tons/yr	Uncontr Max PM10 emiss Ibs/hr	Uncontr PM10 Max emiss Ibs/day	Uncontr Max PM10 emiss tons/yr	Control Efficiency	Contr Max PM10 emiss lbs/hr	Contr Max PM10 emiss lbs/day	Contr Max PM10 emiss tons/yr	Contr Max PM emiss tons/yr	AP-42 EF reference (see Material Balance workshee t)
Loader grab from Mine Loader	5%	1.60E-05	1.60E-05	100	2500	400000	0.0016	0.0400	0.0032		0.0008	0.0200	0.0016	0.0016	A
dump into Truck Totals	5%	0.00102 Mine humidit	0.00048	100	2500 Lin	400000 50%	0.0481 0.0497 control effi	1.2023 1.2423 ciency	0.0962 0.0994		0.0240 0.0248	0.6011 0.6211	0.0481 0.0497	0.1017 0.1033	E

Watering or chemical dust suppression will be used if necessary when visible dust to maintain dust control efficiency

Vehicle Emissions

Mine humidity, mine retention time, and large particle sizes result in 50% control efficiency

						Unco	ntrolled P	M-10	Co	ntrolled PN	1-10
Vehicle and Weight (tons)	Miles Driven/Day	Effective Weight, empty (tons)	Effective Weight, full (tons)	Mean Weight (tons)	E (lbs/VMT)	max lbs/hr	lbs/day	tons/yr	lbs/hr	lbs/day	tons/yr
[®] Haul truck	1.76	21	42	31.5	2.454287	0.54	4.3	0.8	0.27	2.16	0.39
Shotcrete truck	1.76	10	20	15	1.757627	0.58	3.1	0.6	0.29	1.55	0.28

Loader	3	60	75	67.5	3.458376	1.95	10.4	1.9	0.97	5.19	0.95
Totals	6.52					3.07	17.79	3.25	1.53	8.89	1.62

AP-42 13.2.2 equation (1a), updated 12/03, for unpaved road traffic on an industrial site with precip reduction from AP-42 13.2.2.2 equ 2

$$E = k \left(\frac{s}{12}\right)^{a} \left(\frac{W}{3}\right)^{b} \left(\frac{365 - P}{365}\right)$$

 $E = Emission Factor (lb/VMT)^1$

s = surface material silt content (%)

W = mean vehicle weight (tons)

a, b, k = emipirical constants

P = number of days in a year with at least 0.01 inches of precipitation

■☐ Roads are covered with gravel/crush limestone
■□□ The mean silt content is 6.4% (Table 6-2, WRAP Fugitive Dust Handbook, 2006).

Constants	PM _{2.5}	PM ₁₀	PM
k	0.15	1.5	4.9
a	0.9	0.9	0.7
ь	0.45	0.45	0.45

6.4

0 underground

Cumulative underground emissions exhausting from the mine

		Jncontrolle	Controlled					
	lbs/hr	lbs/day	tons/yr	lbs/hr	lbs/day	tons/yr		
NO2	4.8	25.7	4.7	4.82	25.7	4.69		
SO2	0.6	3.0	0.6	0.57	3.0	0.55		
co	19.0	101.2	18.5	18.98	101.2	18.48		
PM-10	3.1	19.0	3.3	1.56	9.5	1.67		



Modeled as a volume source at the 15' high mine portal where the mine ventilation system releases into ambient air

TAPs from Ore

Total PM lbs/hr 2.2013

2013 (road dust not included)

IDAPA TAP listing		elemental form	Percent (%) by weight of ore	TAP Emission (lbs/hr)	IDAPA EL	Ratio of TAP to EL	Require Modeling?	AAC (ug/m3)	AACC (ug/m3)	Modeled impact (ug/m3)	Can T-RACT be employed?	T-RACT Adjusted AACC	Ratio of modeled results to Applicable Impact Limit	Pass T- RACT?
aluminum,	Al Metal and oxide		N/A			L.	no							
	Al Pyro Powders	silicate	5.04	1.11E-01	0.333	0.33	no							
	Al Soluble Salts	silicate	5.04	1.11E-01	0.133	0.83	no			4				
antimony, compounds			0.0015	3,30E-05	0.033	0.00	no							
arsenic, ***		Cobaltite CoAsS	0.71	1.56E-02	1.50E-06	10419.60	yes		2.30E-04	1.58E-03	yes	2.30E-03	0.69	yes
beryllium/compounds			0.00002	4.40E-07	2.80E-05	0.02	no							
cadmium/compounds			0,000005	1.10E-07	3.70E-06	0.03	no							
chromium, metal	Cr (II) compounds	trace element, no CrVI	0.007	1.54E-04	0.033	0.00	no							
	Cr (III) compounds	trace element, no CrVI	0.007	1.54E-04	0.033	0.00	no							
	CrVI	trace element, no CrVI		0,00E+00	5,60E-07	0.00	no							
Cobalt	Co Carbonyl	dominantly Cobaltite CoAsS	1.41	3.10E-02	0.007	4,43	yes	5		0.00983			0.002	
	Co hydrocarbonyl	dominantly Cobaltite CoAsS	1.41	3.10E-02	0.007	4.43	yes	5		0.00983			0.002	
	Co Metal Dust, Fume	dominantly Cobaltite CoAsS	1,41	3,10E-02	0.0033	9,41	yes	2.5		0.00983			0.004	
Copper	Cu Fume		0.7	1.54E-02	0.13	0.12	no		-					
	Cu Dust and Mists		0.7	1.54E-02	0.067	0,23	no							
iron,	iron oxide fume		13,36	2.94E-01	0.333	0.88	no							
lead,			0.00009	1.98E-06	0.1488	0.00	no						-	
manganese,	Mn dust and compounds		0.0163	3.59E-04	0.333	0.00	no							
mercury,	Hg (Aryl and Inorganic)		0,00003	6,60E-07	0.007	0.00	no							
molybdenum,			0.00009	1.98E-06	0.333	0.00	no							
nickel,	Nickel		0.002	4.40E-05	2.70E-05	1.63	yes	0.0042		0.00001			0.002	
selenium,	Se compounds		0.0009	1.98E-05	0.013	0.00	no							
silver,	Ag Metal		0.00003	6.60E-07	0.007	0.00	no							
	Soluble compounds		0.00003	6.60E-07	0.001	0.00	no			5-001				
tungsten,	Insoluble Compounds		0.00026	5.72E-06	0.333	0.00	no							
	Soluble Compounds		0.00026	5.72E-06	0.067	0.00	no							
uranium, compounds			0.00003	6.60E-07	0.013	0.00	no				-			
zinc, metal			0,0034	7,48E-05	0,667	0.00	no							
	Zn chloride fume		0.0034	7.48E-05	0.067	0.00	no							
	Zn oxide fume		0.0034	7.48E-05	0,333	0,00	no				7			
	Zn oxide dust		0.0034	7.48E-05	0.667	0.00	no							
zirconium, compounds			0.0013	2,86E-05	0,333	0.00	no							

Lead emission threshold listed is equivalent to modeling threshold of 100 lbs/mo in IDEQ Modeling Guidelines Table 1

***	%As by wt
Ore	0,7100
Waste rk, tailings	0.0710
Mined rock	0.5255

This worksheet calculates arsenic emissions in the base case and with possible enclosures around the three operating areas (Ram Portal material transfers, Mill Site materials transfers, and the TWSF material transfers). Based on the ton per year change in emissions by enclosing fugitive emission sources at the three aforementioned locations, a cost per ton for additional controls on the emissions is derived. The cost estimate for the enclosure scenario is described separately.

The cost per ton to reduce the emissions using enclosures and baghouses over a 10 year mine life is extrodinary and not economically feasible.

Notes

The proposed base case scenario represent the same controls that were accepted as LAER for a major source in a non-attainment area. Emissions included in this calculation include only those related to the "No Tram" scenario (Most Conservative Scenario).

				Arsenic	Arsenic	
		PM	District of the last of the la	ton/yr	ton/yr	
Source ID	Source	lbs/hr	tpy	Base Case	Enclosures	
PORTAL						
EP1301	Mined Rock truck dump	0.002	0.003	1.68E-05	1.68E-06	
EP1303	Loader grab from mined rock pile	0.002	0.003	1.68E-05	1.68E-06	
EP1304	Loader drop to Truck	0.102	0.203	1.07E-03	1.07E-04	
EP1302	Mined Rock stockpile	0.0146	0.0004	1.95E-06	1.95E-07	
EP1101	1200-BN-201 - Mined Rock to Tram Bin	0.002	0.003	1.68E-05	1.68E-06	
EP1102	1200-FE-201 - Bin to Tram	0.002	0.003	1.68E-05	1.68E-06	
	Total PORTAL	0.1227	0.2165			
MILL SITE						
EP2001	Truck Dump Crusher Ore Pile (no tram scenario)	0.001	0.002	1.59E-05	1.59E-06	
EP301	Ore Stockpile	0.031	0.001	5.68E-06	5.68E-07	
EP302	1200-LD-201- Tram Bin to Coarse Ore Stockpile	0.001	0.002	1.59E-05	1.59E-06	
EP303	Loader grab from Coarse Ore Stockpile	0.001	0.002	1.59E-05	1.59E-06	
EP401	Waste Rock Stockpile	0.014	0.000	2.52E-07	2.52E-08	
EP402	1200-LD-201- Tram Bin to Waste Rock Stockpile	0.002	0.001	6.82E-07	6.82E-08	
EP403	Loader grab from Waste Rock Stockpile	0.018	0.061	4.33E-05	4.33E-06	
EP404	Loader dump Waste Rock Stockpile into Truck	0.018	0.061	4.33E-05	4.33E-06	
EP1201	Loader drop to Primary Crusher feed bin	0.085	0.142	1.01E-03	1.01E-04	
	Total MILL SITE	0.1724	0.2732			
TWSF						
EP601	TWSF Waste Rock truck dumping	0.002	0.001	6.82E-07	6.82E-08	
EP602	TWSF area management	0.372	0.268	1.90E-04	1.90E-05	
EP603	TWSF wind eroision	1.209	0.031	2.18E-05	2.18E-06	
EP604	Truck Dumps Tailings TWSF	0.000	0.001	4.63E-07	4.63E-08	
	Total TWSF	1.5828	0.3003	4.00L-01	4.032-00	
		1 1.0020	0.000	2.45E-03	2.45E-04	
				Reduction (tpy)	= 0.0022	
				(lb/y) =	= 4.4	
				Total (ton) * =		
			1	(ai)	= 48.561	
			COST	\$0	\$36,800,000	
					1	
		COST PER	TON	\$0	\$16,671,661,946	
		COST	TON	\$0	\$1,515,605,631	
		COST PER	TON	() () () () () () () () () ()	*.,=,0,000,001	

Represents emmissions sources related to the "Tram" scenario.

Emission rate using moisture control as the P2 technique in the Base Case scenario

Emission rate after enclosing the emission sources at the Portal, Mill Site, and TWSF. Emission rates were reduced 90% to represent a reasonable control efficiency using bag houses.

Assumes an 11 year mine life.

Attachment 2 Mill Processing Limitation Data



August 5, 2008

Letter No. ICP-044

Mr. Guy Jeske 812 Shoup Street Salmon, ID 83467

Subject:

Job No. 0702, Idaho Cobalt Project

Statement of Physical Throughput Limitations

Dear Mr. Jeske,

Ore throughput of the Idaho Cobalt Project concentrator is physically limited by the design of the component equipment. The primary limiting piece of equipment is the ball mill. The system is considered operational if the ball mill is receiving feed from the Fine Ore Bin. Therefore operating availability is calculated based on the percentage of the total time that the ball mill is receiving feed. The overall design availability of the ball mill, and therefore the concentrator is, 92%. However, there will be days when the system operates 100% of the time.

The ball mill is being supplied by Outotec (formerly Outokumpu Technology). Nominal capacity of the concentrating system is 36.2 short tons per hour (STPH). The ball mill manufacturer adds a design factor to assure that this rate can be achieved and maintained as the components wear. The theoretical capacity of the ball mill is 41.7 STPH as shown on the bottom of the attached Mill Size Calculations. The attached sheet forms part of the purchase order for the supply of the ball mill.

The physical throughput limitation for the ball mill (concentrating system) is 41.7 STPH x 24 hours which equals 1000.8 short tons per day.

Sincerely,

Daniel L. Blakeman Manager of Projects MTB Project Management Professionals, Inc.

Cc:

Bill Scales

—Annette McFarland-

Mariana Schmid

File



Samuel Engineering, Inc. Idaho Cobolt Project Trunnion Supported Direct Drive Ball Mill Outokumpu No. GM06087-1 R3

7 MILL SIZE CALCULATIONS

Grinding Created By: Travis Ors	Client: Project Case:	BALL MI Hatch :: Idaho (Mill Siz 01/05/0	Cobolt e	ND PC	WER S	PEC	FICATION V 1.0
☐ Discharge Type ☐ ☐ Grind Ty	rpe	و ا ل	Liner Type —		Status		F Ball Mill Type
Overflow Wet	t Open		○ Steel	New:	75 r 3.0 i		Trunnion Supported
○ Grate ○ Dry	© Close	a L	Rubber	Wom:	75 r 3.0 (nm	Shell Supported
O Peripheral Grate Let	vel —			Trunni	ion Bearing	Туре	
Open Ended Cow	O Intermediate	O Full	● NA	0.00	umal Beari	ngs	Roller Bearings
Inside Shell Diameter of Mill				ork Index	c Rod		10.0 kWh/ml
	O Meters 2.9	0 m	Wo	rk Inde		t	11,5 kWh/mt 8.0 kWh/mt
Effective Grinding Length			F8				9,525 um
16.0	O Meters 4.8	8 m	P8				70 um 95 %
L:D Ratio	1.68			ve Effici c. Feed	ency Fraction to	U/F	95 76 1
Rubber Backing	6 mm	0.24	-		Hours / Ye		8000 hrs
Critical Speed	75 %		Nu	mber of	Mills		1
Normal Charge Volume	32 %						
Max. Charge Volume	40 % 75 mm) in				
Diameter Makeup Balis Ore S.G.	2.9) ibřil3				
Mill Volume	28.62 m3	1010.5					
Mill Speed	19.19 rpm						
Media Type	Forged Steel						
Charge Weight	42,6 mt	47,0) st				
1	actor Calculations	1.00	,		- 1		Notes
EF1: Dry Grind Factor EF2: Open Circ. Ball Milling Fac	tor	1.00			- 1		
% Passing Control Refere	nce Point				- 1		
EF3: Diameter Efficiency Factor	•	0.98	3		l		
EF4: Oversized Feed Factor		1,04	i		ı		
Fo: Oplimum Feed Size		4,465					
Rr. Reduction Ratio		136.1					
EF5: Fineness of Grind Factor	11 3 4705mm	1.00					
EF7: Low Ratio of Reduction Ba Special Efficiency Factor	an white	1.00 1.00					
Product of Efficiency Factors		1.02			- 1		
	_				1		
Uncorrected Specific Power Dra	aft		/ kWh/mt		- 1		
Corrected Specific Power Draft Fines Corrected Specific Power	Draft		/ kWh/mt / kWh/mt		- 1		
Uncorrected Kwb	J.J.		kW/mt of ba	ills			
Grate Discharge Kwb mul	tiplier	1.00)				
Slump Correction Factor (Ss)		0.64	kW/mt of ba	ills			
Slump Factor Inside Liner	Diamater	3.30) m				
RubberLinerPowerLoss)-%				
Big Ball Mill Correction Factor		1.00			- 1		
Corrected Kwb + Ss + Rubber Ball Size Selection			kW/mt of ba mm	ni5			
	New Liners & No		_			M	otor Selection
Pinion Power	483 kW 508 kW		7 HP I HP		559 1	w	750 HP
Motor Power Throughput	37.8 mtph		i nr 7 stph		355		100 116
Annual Capacity	3.0E+05 mtpy	3.3E+0	•				

Attachment 3

Emergency Generator Data



BID EVALUATION - ENGINEERING TECHNICAL REVIEW

JA - 4/3/08 J A/3/08 Jordan Arnold / Josh Jenkins

PROJECT NAME: Idaho Cobalt Concentrator

PROJECT NUMBER: 7031-01

SPECIFICATION NO.: 16230 – Standby Power Generation

EQUIPMENT DESCRIPTION:

750kW, 480V, 3-phase, 60Hz, Diesel Fueled, Weather Protected, EPA

DATE: 04/03/08

Tier 2 Certified, Standby Generator Set with Permanent Magnet

Excitation, Control Panel, Circuit Breaker, Skid Tank, etc.

BIDS RECEIVED & EVALUATED:

REVIEWED BY:

Wagner Power Systems (Caterpillar), Stewart and Stevenson (Detroit Diesel), Cummins Rocky Mountain LLC (Cummins) (parenthesis indicates equipment

manufacturer)

DISCUSSION:

Full technical analysis was completed based on information received by each supplier. Overall cost, along with drawing and delivery lead times was also reviewed.

Wagner meets all required specifications. They provide a C27 engine, SR4B generator, 800kW rated unit for a site output of 750kW. They provide a 600 gallon tank. At 100% load, fuel usage is 57.2 gal/hr which allows for a 10.5 hour run time. They provide permanent magnet excitation system which starts up to 1,913kVA. They provide a digital EMCP 3.2 control system which allows for protection, metering, and control through a LCD display. They provide a weatherproof enclosure with and option adder for a sound attenuated weatherproof enclosure for 85dbA at 3 feet for an additional \$62,000. Startup and Commissioning is included.

Stewart and Stevenson (S&S) meets all required specifications. They provide a G84 engine, 750kW generator for a site output of 734kW. They provide a 550 gallon tank. At 100% load, fuel usage is 54.2 gal/hr which allows for a 10.1 hour run time. S&S also quoted an option adder for a 1000 gallon tank at and additional \$2,300. At 100% load, the 1000 gallon tank provides a 19 hour run time. They provide a permanent magnet excitation system which starts up to 2,120kVA. They provide a digital DGC-2020 control system which allows for protection, metering, and control through a LCD display. They provides a weatherproof enclosure. Startup and Commissioning is included as an option adder of an additional \$6,000.

Cummins Rocky Mountain LLC meets all required specifications. They provide a QST30-G5 NR2 engine, 750kW generator for a site output of XXXkW. They provide a 632 gallon tank. At 100% load, fuel usage is 52.7 gal/hr which allows for a 12 hour run time. They provide permanent magnet excitation system which starts up to 2,655kVA. They provide a digital PowerCommand control system which allows for protection (AmpSentry), metering, and control through a LCD display. They provide a weatherproof enclosure with and option adder for a sound attenuated weatherproof enclosure for 75dbA at 50 feet for an additional \$13,800. Startup and

Commissioning is included.

Wagner provides the most recognizable unit (Caterpillar) with known durability and reliability.

Cummins provides a recognizable unit (Cummins) that is more known for commercial applications.

Stewart and Stevenson provide a less recognizable unit (Detroit Diesel) but known for durability and reliability.

All bidders are technically acceptable. Stewart and Stevenson provide the best delivery and price at 18-20 weeks and \$125,100. Cummins Rocky Mountain LLC provide the second best delivery and price at 22-23 weeks and \$148,024. Wagner Power Systems provide the third best delivery and price at 36 weeks and \$223,200.

UNRESOLVED QUESTIONS/COMMENTS:

Cummins - exact output kW at site elevation.

RECOMMENDATIONS:

Stewart and Stevenson with the Detroit Diesel Generator.

SIGNED:

Joshua Jenkins/Leroy Wallin

DATE: 04/03/08

CONCURRENCE:

Lonnie Leger

DATE: 4/3/08

	STANDBY DIESEL GENERATO	OR FAURAGE		
Description	Bidder A	Bidder B	Bidder C	
Vendor	Wagner Power Systems	Stewart and Stevenson	Cummins Rocky Mountain LLC	
Contact	Bob Keller	George Diaz	Willy Colby	
Address	18091 E, 22nd Ave	5840 Dahlia St.	8211 East 96th Avenue	
	Aurora, CO 80011	Commerce City, CO 80022	Henderson, CO 80640	
WEB	www.wagnerpower.com	WWW,5335.COM	www.cumminspower.com	
Phone No.	303-580-9808	303-287-7441	303-287-0201	
Fax No.	303-739-3190	720-322-7527	303-287-4837	
E-Mail	Cat4power@msn.com		300 207 1001	
Date:	3/20/2008	3/20/2008	3/20/2008	
Quote Reference Number	07RMK0063	D080320	WC3921-US	
Equipment			<u> </u>	
1900-GE-901 Standby Diesel Generator	\$223,200.00	\$125,100.00	\$148,024.00	
Optional Adders		<u></u> .		
85 dbA Package Enclosure w/ add I upgrades	\$62,000.00			
75 dBA @ 50' Sound Attenuated Enclosure			\$13,800,00	
Total Equipment Cost w/Adders	\$285,200.00	\$125,100,00	\$161,824.00	
Drawings & Delivery				
Approval Drawings	Not Stated	Not Stated	Not Stated	
	Startup and commissioning included, installation not included	Startup and installation not included. Startup estimate 40hr X \$150/hr = \$5000 + mileage	Startup and commisioning included installation not included	
Freight	FOB jobsite	Not Stated	FOB jobsite	
Delivery Time	36 weeks after release to manufacturing	18-20 weeks ARO	22-23 weeks ARO (could be soone based on stock availibility)	
Payment Terms	95% payment due net 30 days after delivery, 5% payment due upon completion of startup	All invoices shall be payable within 30 days		
Сителсу	U.S. dollars	U.S. dollars	U.S. dollars	
Price Validity	60 Days	30 Days		
Duties				
Taxes	Not included	Not included	Not included	
Liability				
Cancellation	Not Stated	Orders for Goods or Services may not be calicelled by Buyer after acceptance by Seller	·	
Warranty	2 years from date of startup, not to exceed 30 months from shipment from the factory	2 year, 3,000 hour limited warranty	Two year base warranty. One year limited warranty. Extended warranty options are available for coverage up to 10 years	

Technical Comparison (Attachment B)

GENERAL			1	
Manufacturer	Caterpillar, Inc.	Detroit Diesei MTU	Cummins	
Model No.	C27	750RXC6DT2	750 DQFAA	
Туре	4-Stroke Diesel	Diesel Engine Generator	750kW ONAN Diesel Fueled Gen	
Equipment Number	1900-GE-901	1900-GE-901	1900-GE-901	
RATINGS				
Name plating rating, kW	800 kW Standby	750 kW	750 kW	
Output rating at site, (8000' ASL)		734 kW	···	
Frequency	60 Hz	60 Hz	60 Hz	
Voltage	480 / 277V, 3 phase	480 / 277V, 3 phase	480 / 277V, 3 phase	
GENSET PACKAGE PERFORMANCE				
Power rating at 0.8 power factor	800 kW	750 kW	750 kW	
Power rating with fan	800 kW	750 kW	750 kW	
FUEL CONSUMPTION				
100% load with fan	57.2 GPH	54.2 GPH	52.7 GPH	
75% load with fan	45.3 GPH	41.0 GPH	39.8 GPH	
50% load with fan	32.3 GPH	27.7 GPH	27.1 GPH	
EXHAUST SYSTEM		,		
Exhaust stack gas temperature	955*F	1,040°F	816°F	
Exhaust gas flow rate	6,045.9 CFM	5,297 CFM	6,310 CFM	
Exhaust flange size (inner diameter)	8"	8"		
Exhaust system backpressure (max allowable)	27" H ₂ O	34.1" H ₂ O	27" H ₂ O	